

**Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application..

**Listing of Claims:**

Claim 1. (currently amended) An isolated biopolymer marker consisting of SEQ ID NO:4 which evidences a link to Type II diabetes.

Claims 2-38. (cancelled)

*Insert*  
Claim <sup>2</sup>39. (withdrawn-currently amended) A method for <sup>in a patient sample</sup>determining the presence of ~~an isolated~~ a biopolymer marker <sup>which is linked to Type II diabetes.</sup> consisting of SEQ ID NO:4 comprising:

(a) obtaining a sample from a patient;

(b) conducting mass spectrometric analysis on said sample in a manner effective to maximize analysis of peptide fragments contained therein and comparing mass spectrum profiles of said ~~isolated~~ biopolymer marker consisting of SEQ ID NO:4 to mass spectrum profiles of peptides obtained and analyzed from said sample; and

(c) confirming the presence of said ~~isolated~~ biopolymer marker consisting of SEQ ID NO:4 in said sample displaying a peak profile at about 1353 daltons in said mass spectrum profile:

wherein the presence of said ~~isolated~~ biopolymer marker consisting of SEQ ID NO:4 is indicative of a link to Type II diabetes.

<sup>3</sup>  
<sup>2</sup> Claim ~~40~~<sup>1</sup>. (withdrawn-currently amended) The method of claim ~~39~~<sup>2</sup>, wherein [[the]] said sample is an unfractionated body fluid or a tissue sample.

<sup>4</sup>  
Claim ~~41~~<sup>1</sup>. (withdrawn). The method of claim ~~39~~<sup>2</sup>, wherein said sample is selected from the group consisting of blood, blood products, urine, saliva, cerebrospinal fluid, and lymph.

<sup>5</sup>  
Claim ~~42~~<sup>1</sup>. (withdrawn). The method of claim ~~39~~<sup>2</sup>, wherein said mass spectrometric analysis is selected from the group consisting of Surface Enhanced Laser Desorption Ionization (SELDI) mass spectrometry (MS), Maldi Qq TOF, MS/MS, TOF-TOF, ESI-Q-TOF and ION-TRAP.

<sup>6</sup>  
Claim ~~43~~<sup>1</sup>. (withdrawn). The method of claim ~~39~~<sup>2</sup>, wherein said patient is a human.

Claim ~~44~~<sup>7</sup> (withdrawn-currently amended) A kit for determining the presence of ~~an isolated~~ a biopolymer marker consisting of SEQ ID NO:4 comprising: (a) a peptide consisting of SEQ ID NO:4, and (b) an antibody that binds to said peptide in a sample from a patient.

Claim ~~45~~<sup>8</sup> (withdrawn). The kit of claim ~~44~~<sup>7</sup>, wherein said antibody is immobilized on a solid support.

Claim ~~46~~<sup>9</sup> (withdrawn). The kit of claim ~~44~~<sup>7</sup>, wherein said antibody is labeled.